

**Amendments to the Claims:**

The following listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) A method for transmitting audio information, comprising:
  - receiving at least two audio signals, the audio signals comprising different audio information;
  - synthesizing a carrier signal and ~~a~~ at least two side band ~~signal;signals;~~
  - encoding the at least two side band ~~signal-signals~~ with different ones of the different audio information;
  - transmitting the carrier signal and the encoded side band ~~signal-signals~~ to a plurality of transducers;
  - transmitting the carrier signal and the encoded side band ~~signal-signals~~ from the plurality of transducers; and
  - actively adjusting a phase of the carrier signal and the encoded side band signal transmitted by at least one of the transducers relative to a phase of the carrier signal and the encoded side band signal transmitted by ~~another~~ at least one other of the transducers for the purpose of controlling the directivity or focus of ~~a~~ at least two hypersonic ~~beam-beams~~ produced by the ~~signals. — transducers, wherein~~
  - at least two of the hypersonic beams produce different auditory signals, the auditory signals corresponding to different ones of the audio signals.
2. (Currently Amended) The method of claim 1, further comprising:
  - generating a plurality of signals based on the encoded side band ~~signal-signals~~ and the carrier signal;

adjusting phase relationships of the plurality of signals to form the focused hypersonic ~~beam;~~ beams; and

generating hypersonic wavelets, each of the wavelets generated based on one of the signals.

3. (Currently Amended) The method of claim 1, further comprising:

selecting one or more carrier signals;

encoding one side band signal with unique audio information for each of the carrier signals; and

transmitting the carrier signals and encoded side band signals in ~~one or more~~ the at least two focused hypersonic beams, each of the hypersonic beams aimed at a different direction than other one of the hypersonic beams.

4. (Original) A computer readable medium or a modulated signal being encoded to perform the method of claim 1 in conjunction with a hypersonic transducer.

5-18. (Cancelled)

19. (Currently Amended) A hypersonic transducer, comprising:

means for synthesizing a carrier signal and ~~a~~ at least two side band ~~signal~~ signals encoded with different audio information;

means for transmitting the carrier signal and the encoded side band ~~signal~~ signals to a plurality of transducers;

means for transmitting the carrier signal and encoded side band ~~signal~~ signals from the plurality of transducers, the transducers outputting at least two hypersonic beams that produce different auditory signals corresponding to different ones of the different audio information; and

means for actively adjusting a phase of the carrier signal and the encoded side band ~~signal~~ signals transmitted by at least one of the transducers relative to a phase of the

carrier signal and the encoded side band signal transmitted by ~~another~~ at least one other of the transducers for the purpose of controlling the directivity or focus of ~~a~~ the hypersonic ~~beam~~ beams produced by the ~~signals~~ transducers.

20. (Cancelled)

21. (New) A hypersonic transducer system for transmitting audio information with hypersonic beams, the system comprising:

at least one transducer array, each transducer array comprising a plurality of transducers;

two or more audio sources, each audio source outputting a corresponding audio signal;

at least one means for generating a carrier signal;

at least one means for generating a sideband signal encoded with at least one of the audio signals;

a plurality of signal conditioning circuits;

a plurality of delay circuits;

a plurality of drive circuits that drive the transducers; and

at least one controller that controls generation of input signals for the drive circuits, the input signals being generated from the at least one carrier signal and the at least one sideband signal, wherein

the controller controls the signal conditioning circuits to adjust amplitudes of the input signals, and controls the delay circuits to adjust delays of the input signals so that the at least one transducer array outputs at least two hypersonic beams focused to deliver different audio information to different audio information recipients.

22. (New) The system of claim 21, wherein the audio sources include a first audio source outputting a first audio signal that includes first audio information targeted to a first audio information recipient and a second audio source outputting a second audio signal that

includes second audio information targeted to a second audio information recipient, the first and second audio information being different.

23. (New) The system of claim 22, wherein the transducers of the at least one transducer array are grouped into subarrays of transducers, the transducers of each subarray receiving the same drive signal.

24. (New) The system of claim 23, wherein each hypersonic beam is produced from the outputs of two of the subarrays of transducers, the output of one of the subarrays of transducers being based on the carrier signal, the output of the other of the subarrays of transducers being based on a corresponding sideband signal encoded with audio information.

25. (New) The system of claim 23, wherein each hypersonic beam is produced from the output of at least one of the transducers, the output of the at least one of the transducers being based on the carrier signal and a corresponding sideband signal encoded with audio information.